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L17	dense core vesicles	54	L17
DB=USPT,PGPB; PLUR=YES; OP=ADJ			
L16	L14 AND vesicle	35	L16
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L14	L13 AND sucrose gradient	206	L14
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L12	L11 AND equilibrium gradient	32	L12
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DB=USPT,PGPB; PLUR=YES; OP=ADJ			
L10	L9 AND equilibrium density gradient	1	L10
L9	L8 AND sucrose gradient	265	L9
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L7	L6 AND equilibrium density gradient	4	L7
L6	L3 AND sucrose gradient	482	L6
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L4	L3 sucrose velocity size gradient	0	L4
L3	((530/300 |530/350)!.CCLS.)	11943	L3
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L10	sucrose gradient	2917	L10
L9	L8 AND velocity	61	L9
L8	L7 AND equilibrium	402	L8
L7	sucrose gradient	2917	L7
L6	L5 AND sucrose gradient	5	L6
L5	microsome preparation	85	L5
L4	sucrose equilibrium density gradient	7	L4
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=> s dense core vesicles AND equilibrium density gradient AND size gradient
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  39 FILES SEARCHED...
  56 FILES SEARCHED...
L2   2 DENSE CORE VESICLES AND EQUILIBRIUM DENSITY GRADIENT AND SIZE
                GRADIENT

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DRUGLAUNCH, DRUGMONOG2, DRUGUPDATES, FEDRIP, FOREGE, GENBANK, KOSMET,
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L3   1 DUP REM L2 (1 DUPLICATE REMOVED)

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L3   ANSWER 1 OF 1 IFIPAT COPYRIGHT 2003 IFI   DUPLICATE 1
AN   10147014 IFIPAT;IFIUDB;IFICDB

TI METHOD OF PURIFICATION OF NEUROPEPTIDE CONTAINING VESICLES FROM THE BRAIN; ANALYZING DENSE CORE VESSICLES FROM BRAIN TISSUES; OBTAIN BRAIN CELLS, INCUBATE WITH EXTRACTION BUFFER, MONITOR VESSICLE TISSUES
IN Berg Eric A; Fine Richard E
PA Boston University (1308)
PI US 2002090655 A1 20020711
AI US 2001-1898 20011031
PRAI US 2000-244971P 20001101 (Provisional)
FI US 2002090655 20020711
DT Utility; Patent Application - First Publication
FS CHEMICAL
    APPLICATION
CLMN 15
GI 6 Figure(s).

FIGS. 1A and 1B disclose the separation of substance Pcontaining vesicles in a sucrose velocity gradient. Preparations of microsomes from ON and LGN/SC respectively, were centrifuged in a 10-50% sucrose velocity gradient and analyzed for substance P by RIA. A, Substance P distribution of fractionated ON microsomes; and B, Substance P distribution of fractionated LGN/SC microsomes by radioimmunoassay.

FIGS. 2A-2E disclose the fractionation of substance P-containing vesicles in a sucrose equilibrium gradient. Fractions containing substance P from FIG. 1 were pooled, concentrated, and then loaded on an equilibrium density sucrose gradient (2550%). Fractions were analyzed for A, substance P content (ON); B, substance P content (LGN/SC) by RIA; C, individual synaptic vesicle membrane proteins (SV2, synaptotagmin, and synaptophysin) (ON); D, individual synaptic vesicle membrane proteins (SV2, synaptotagmin, synaptotagmin, synaptophysin, and synaptobrevin) (LGN/SC); E, synaptotagmin IV (LGN/SC) by Western blot.

FIGS. 3A-3E disclose co-sedimentation of vesicle-associated proteins with substance P inLGN/SC microsomes fractionated by size and density. Fractions containing substance P from FIG. 2 were analyzed for A, secretogranin II; B, beta APP (C8); C, Rab3, D, alpha-synuclein; E, BDNF by Western blot.

FIG. 4 discloses immunoadsorption of synaptic vesicle membrane proteins from substance P-containing fractions. Fractions containing substance P from FIG. 2 were immunoadsorbed with mouse IgG or synaptophysin Ab linked magnetic beads (2 or 4 mgs) (Dynal) as per the manufacturers instructions. Samples were analyzed for specific synaptic vesicle membrane proteins (SV2, synaptotagmin, synaptophysin, and synaptobrevin) by Western blot.

FIGS. 5A and 5B disclose electron micrographs of an immunolabeled, negatively stained DCV preparation from LGN/SC. Fractions containing substance P from an equilibrium gradient were fixed, adhered to formvar, carbon coated nickel grids and A, immunolabeled with mouse IgG and colloidal gold conjugated antibodies (12 nm); or B, immunolabeled with synaptophysin and colloidal gold conjugated antibodies (12 nm).

FIGS. 6A-6D disclose electron micrographs of immunolabeled thin sections from a DCV preparation from LGN/SC. Fractions containing substance P from an equilibrium gradient were fixed, embedded, sectioned and immunolabeled with A, rabbit IgG an colloidal gold conjugated synaptotagmin and colloidal gold conjugated antibodies (12 nm); and D, BDNF and colloidal gold conjugated antibodies (6 nm).

=> s velocity size gradient AND equilibrium density gradient
  21 FILES SEARCHED...
  40 FILES SEARCHED...
  56 FILES SEARCHED...
L4 2 VELOCITY SIZE GRADIENT AND EQUILIBRIUM DENSITY GRADIENT

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=> s size gradient AND equilibrium gradient AND vesicle
26 FILES SEARCHED...
48 FILES SEARCHED...
L6 3 SIZE GRADIENT AND EQUILIBRIUM GRADIENT AND VESICLE

=> DUP REM L6
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L7 2 DUP REM L6 (1 DUPLICATE REMOVED)

=> D L7 1-2

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AN 10147014 IFIPAT;IFIUDB;IFICDB
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THE BRAIN; ANALYZING DENSE CORE VESSICLES FROM BRAIN TISSUES; OBTAIN BRAIN CELLS, INCUBATE WITH [redacted]TRACTION BUFFER, MONITOR VESSI[redacted] TISSUES

IN Berg Eric A; Fine Richard E
PA Boston University (1308)
PI US 2002090655 A1 20020711
AI US 2001-1898 20011031
PRAI US 2000-244971P 20001101 (Provisional)
FI US 2002090655 20020711
DT Utility; Patent Application - First Publication
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APPLICATION
CLMN 15
GI 6 Figure(s).

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L7 ANSWER 2 OF 2 WPIDS (C) 2003 THOMSON DERWENT
AN 2002-435699 [46] WPIDS
DNN N2002-342949 DNC C2002-123804
TI Method for analyzing purified dense core ***vesicles*** , comprises determining contents of purified dense core ***vesicles*** from extracted brain samples which are purified with predetermined fold.
DC B04 S03
IN BERG, E A; FINE, R E
PA (UYBO-N) UNIV BOSTON
CYC 95
PI WO 2002037104 A2 20020510 (200246)* EN 33p G01N033-50
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